

Algoverse

Bi-Weekly Progress 2





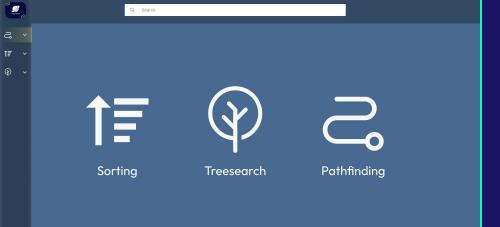
Small Recap



Backend Progress

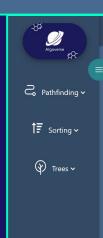
- Added React test and builds to the CI/CD Pipeline
- Implemented first algorithms
 for sorting and path finding

🛭 api-build	1m 22s
api-test	1m 2s
api-checkstyle	1m 9s
api-spotbugs	1m 23s
frontend-build	1m 0s

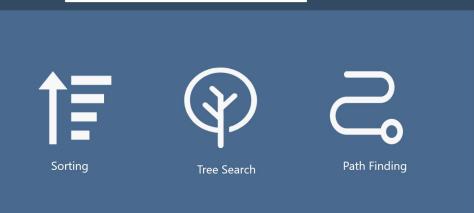


Design

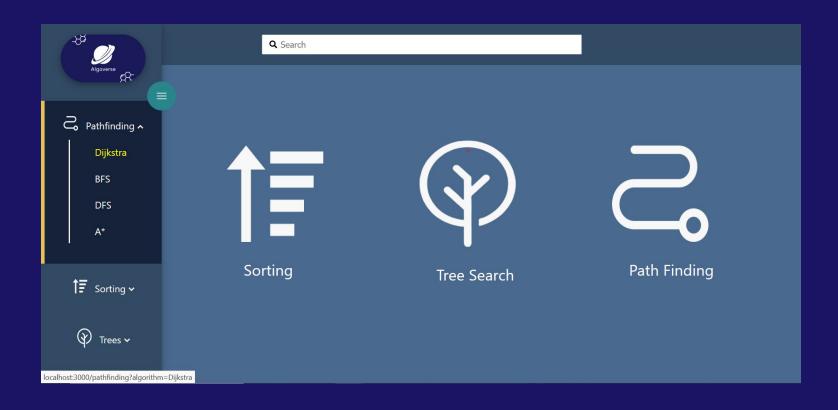




Q Search



Frontend Progress - Sidebar



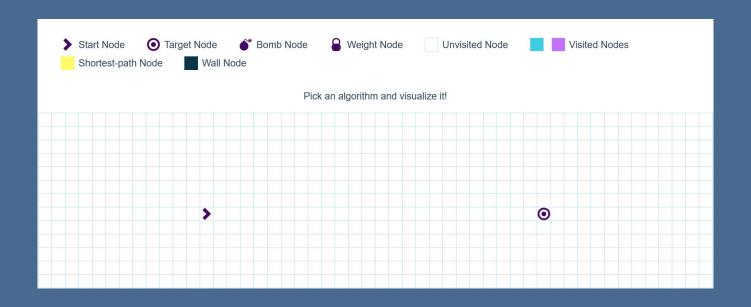


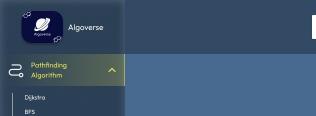
Pathfinding Algorithm - Dijkstra

Q Search









A* Search

Sorting Algorithm

V

Order of changes

```
function BinarySearch(array, element)
  pseudocode
  pseudocode
  pseudocode
  for i < 20
    pseudocode
    pseudocode
    pseudocode
    pseudocode
    pseudocode
    Finish</pre>
```

Q Search

```
Usecases of Binary Search:

- usecase 1
- usecase 2
- usecase 3
- usecase 4

Binary search is best used in ...
```

Schedule

Week	✓	✓	9	10	11	12	13	14	15
Frontend	Implement	Designs, tation Main Routing	Pathfinding		Sorting + Treesearch		T ()		
Backend		rithm entation		elping out tend	Buffer (more data structures, help Frontend)		Testing and Bugfixing		

